

X—Degree Programs, Bachelor of Applied Science (B.A.Sc.)

Program Information

The University of Guelph offers an 8 semester (20.00 credits) honours program leading to a Bachelor of Applied Science (B.A.Sc.) degree. Students must select one of the 4 following major areas of study:

[Applied Human Nutrition](#)
[Child, Youth and Family](#)
[Gerontology](#)

Co-operative Education is available in the following programs:

[Child, Youth and Family](#)
[Gerontology](#)

Given the professional and applied character of the program, there are no minors associated with the degree. Elective offerings enable students to select courses which support or complement their primary field of study.

The program is interdisciplinary and provides a distinctive and integrated focus of applied social science in each of the 3 majors. Courses from the traditional disciplines in other departments in the University are coupled with courses offered by faculty members in the Department of Family Relations and Human Development whose own backgrounds reflect the interdisciplinary nature of the program.

Laboratory, practicum and field experiences enhance the students' opportunities to grasp the contributions of the social, physical and biological sciences to significant facets of human behaviour and experience, whether in family, community, or in educational settings.

Academic Counselling

Program Counselling

A B.A.Sc. program counsellor is available to assist prospective students in the selection of their major and initial courses, and to respond to questions regarding any other aspects of their anticipated program. The program counsellor will also assist in-course students who need information or advice about their program or other academic regulations, who seek information on services and resources available to students or who are contemplating transfer into or out of their current major or degree program.

Academic Advising

On entering the program all students are assigned to a departmental advisor by major. Co-operative Education students in all majors are also assigned to an advisor. This advisor is thoroughly familiar with the academic requirements of the program and is also knowledgeable about career opportunities which relate to a student's specific major. Students are strongly encouraged to attend all meetings called by their departmental advisors, and to set up individual meetings with them when they have questions or concerns about their major, or their performance in the program.

Continuation of Study

Students are advised to consult the regulations for Continuation of Study which are outlined in detail in [Section VIII—Undergraduate Degree Regulations & Procedures](#). Students in the B.A.Sc. program may repeat any failed course only once. Failure to successfully complete a required (core) credit on the second attempt results in the student not being permitted to continue in his/her major and/or program.

Conditions for Graduation

To qualify for the degree Bachelor of Applied Science, the student must satisfy the following conditions:

- the student must have successfully completed the schedule of studies requirements for the specified major
- the student must have a cumulative average of 60% or higher
- the student must have a term academic standing of Eligible to Continue or Continue on Probation

Schedule of Studies

Courses specified in the Schedule of Studies are required courses and must be completed successfully. A full course load normally includes 2.50 credits (normally 5 courses). The requirements for each major are set out below.

Special Expenses

Expenses for field trips can range from \$20 to \$30 per semester in the first 4 semesters and from \$25 to \$50 in each of the last 4 semesters. In certain courses modest expenses will be incurred for supplies and where appropriate for laboratory costs. According to recent Ontario legislation, agencies licensed by the Ministry of Community and Social Services which care for, or provide service to, children or vulnerable adults are required to do criminal reference checks on all their employees. Students enrolled in practica or field placement courses may be required to submit to the agency with which they are placed, personal information about any criminal convictions and pending criminal charges. The cost of acquiring this criminal reference check (Canadian Police Information Check) will be the responsibility of each student.

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Applied Human Nutrition (AHN)

Department of Family Relations and Applied Nutrition, College of Social and Applied Human Sciences.

The Applied Human Nutrition major recognizes both the biological and the social facets of human nutrition. It focuses on nutrition from a preventive, maintenance and therapeutic perspective, all of which require a thorough understanding of the related biological sciences and of selected aspects of the behavioral sciences. Students learn about nutrition and its application to the maintenance of health and the prevention and treatment of disease. They also learn about individual and social behaviour, particularly in family settings, and the implications of behavioral factors in the establishment of good nutrition status from conception through to old age.

The B.A.Sc. Applied Human Nutrition program is accredited by the Dietitians of Canada.

All students in the Applied Human Nutrition major must include the core of 14.00 required and 1.50 restricted electives in the minimum of 20.00 passed credits. Students normally register for courses according to the semesters indicated below for Fall and Winter sequencing.

Those students wishing to compete for admission to a post-graduate dietetic internship will be assisted by departmental advisors in the selection of courses that will meet the academic requirement of the [Dietitians of Canada](#) and the [College of Dietitians of Ontario](#) for eligibility for internship and/or membership.

Successful completion of the requirements will allow students to compete for a limited number of dietetic internship positions. Most graduates completing dietetic internships are employed in hospitals and other health care agencies such as community health centres and long-term care facilities. Others find employment in a wider range of vocations including those associated with health and education in the government or private sectors, or with the food industry. Still others proceed to graduate study in fields such as nutrition, public health nutrition, medicine or education.

Major

Semester 1

CHEM*1040 [0.50]	General Chemistry I
HTM*2700 [0.50]	Introductory Foods
MICR*1020 [0.50]	Fundamentals of Applied Microbiology
PSYC*1200 [0.50]	Dynamics of Behaviour
SOC*1100 [0.50]	Sociology

Note: Students who do not have standing in OAC Biology, or equivalent, must substitute BIOL*1020 for SOC*1100 in Semester 1. Semester 2 must include SOC*1100 if this substitution is made.

Semester 2

CHEM*1050 [0.50]	General Chemistry II
FRHD*1020 [0.50]	Couple and Family Relationships
NUTR*1010 [0.50]	Nutrition and Society
PSYC*1100 [0.50]	Principles of Behaviour
0.50 elective	

Semester 3

CHEM*2580 [0.50]	Introductory Biochemistry
HTM*2030 [0.50]	Control Systems in the Hospitality and Tourism Industry
NUTR*2050 [0.50]	Family and Community Nutrition
STAT*2080 [0.50]	Introductory Applied Statistics I
One of:	
CIS*1200 [0.50]	Introduction to Computing
COST*2020 [0.50]	Information Management

Note: HTM*2030 may be taken in Semester 4.

Semester 4

CHEM*3560 [0.50]	Structure and Function in Biochemistry
STAT*2090 [0.50]	Introductory Applied Statistics II
1.00 elective or restricted elective	
One of:	
NUTR*3190 [0.50]	Fundamentals of Nutrition
NUTR*3210 [0.50]	Fundamentals of Nutrition

Semester 5*

BIOM*3100 [0.50]	Mammalian Physiology I
FRHD*3070 [0.50]	Research Methods – Family Studies
1.50 elective or restricted elective	

* students planning to apply for a dietetic internship must take HTM*3090 in Semester 5 in place of elective or restricted elective

Semester 6

BIOM*3110 [0.50]	Mammalian Physiology II
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FRHD*3400 [0.50]	Communication and Counselling Skills
HTM*3000 [0.50]	Human Resources Management
NUTR*3040 [0.50]	Clinical Nutrition I

0.50 elective or restricted elective

Note: HTM*3000 may be taken in Semester 7.

Semester 7

NUTR*4010 [0.75]	Nutritional Assessment
NUTR*4040 [0.75]	Clinical Nutrition II
NUTR*4070 [0.50]	Nutrition Education

0.50 elective or restricted elective

Semester 8

NUTR*4900 [0.50]	Selected Topics in Human Nutrition
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2.00 electives or restricted electives

Note: With approval from the instructor, students may substitute NUTR*4810 and NUTR*4910 for NUTR*4900.

Restricted Electives

In addition to the 14.00 required credits listed above, students must take 1.50 restricted electives from the following list:

FOOD*2010 [0.50]	Principles of Food Science
FOOD*2410 [0.50]	Introduction to Food Processing
FOOD*2420 [0.50]	Introduction to Food Microbiology
FOOD*3010 [0.50]	Food Chemistry
FOOD*3020 [0.50]	Food Chemistry Laboratory
FOOD*3230 [0.75]	Food Microbiology
FOOD*3700 [0.50]	Sensory Evaluation of Foods
HTM*2740 [0.50]	Cultural Aspects of Food
HTM*3780 [0.50]	Economics of Food Usage

Electives

There are 4.50 electives throughout the major which may be fulfilled by electing courses in any subject provided that the student has the prerequisite courses and can schedule them. Some electives and restricted elective courses are intended to contribute to a liberal education, while others permit students to work toward specific academic and career goals. Departmental advisors will assist students in selection of courses that will meet the requirements of the [Dietitians of Canada](#) for eligibility for Internship and/or membership, and when requested, can assist in selection of electives to complement the core requirements.

Courses in different departments which complement the major and which may be taken as electives include:

AGR*1250 [0.50]	Agrifood System Trends and Issues
COST*1000 [0.50]	Introduction to Marketing Management
MBG*1000 [0.50]	Genetics and Society
NUTR*3330 [0.50]	Micronutrients, Phytochemicals and Health
NUTR*4020 [0.50]	Nutrition, Growth and Development
NUTR*4200 [0.50]	Nutrition and Immune Function
NUTR*4210 [0.50]	Nutrition, Exercise and Energy Metabolism
NUTR*4850 [0.50]	Field Experience in Nutrition Education
PHIL*2030 [0.50]	Philosophy of Medicine

X—Degree Programs, Bachelor of Applied Science (B.A.Sc.)

Child, Youth and Family (CYF)

Department of Family Relations and Applied Nutrition, College of Social and Applied Human Sciences.

The Child, Youth and Family major, administered by the [Department of Family Relations and Applied Nutrition](#), examines the psychological, social and physical conditions which influence the growth and development of children and adolescents. While the primary focus of the major is on children and youth, the program regards the family as a primary context of development and as the key to successful interventions for children with developmental, behavioural, or socio-emotional difficulties. Through the effective use of elective courses, the core requirements in the major can be supplemented to create a program of study which will prepare graduate as for a variety of careers in child and youth services. Graduates are pursuing child and youth-related careers in a variety of settings including child and youth treatment facilities, elementary schools, paediatric wards in hospitals, family and community service agencies, and child care centres. Further academic preparation may be required for certain careers. Many graduates go on to pursue graduate education in fields such as family studies, human development, psychology, counselling psychology, social work, speech pathology, and occupational therapy.

Articulation Agreements

The University of Guelph is a partner in several Articulation Agreements concerning the Child, Youth and Family major. Students who enter the B.A.Sc. Child, Youth and Family major with advanced standing through an articulation agreement should identify themselves to the B.A.Sc. Program Counsellor for specific guidance around their Schedule of Studies (see [Section IV](#) of this calendar).

Students in the Child, Youth and Family major who are interested in proceeding to teachers college should refer to [Section IV—Admissions Information](#), Articulation Agreements for information about admission to the Bachelor of Education program at Nipissing University.

Program Requirements

All students in the Child, Youth and Family major must include the following core of 15.00 required credits and 1.00 restricted electives to a minimum of 20.00 passed credits. Students are encouraged to plan their use of electives carefully in order to focus their program on one or a combination of the career options open to graduates. Discussion with a departmental advisor regarding the various choices possible from within the major is strongly recommended. Students will normally register for courses according to the semesters indicated below for Fall and Winter sequencing. Students who register for Summer semesters and other students for whom the semester offerings present difficulty may, where they have the approval of their departmental advisor, take some courses in alternative semesters.

Major

Semester 1

TBLCOURSEINFO

TBLCOURSEINFO

0.50 elective or restricted elective

One of:

TBLCOURSEINFO

TBLCOURSEINFO

One of:

TBLCOURSEINFO

TBLCOURSEINFO

Note: must be taken in Semester 1 if the student does not have OAC Biology or equivalent.

Semester 2

TBLCOURSEINFO

TBLCOURSEINFO

0.50 elective or restricted elective

Semester 3

TBLCOURSEINFO

TBLCOURSEINFO

0.50 elective or restricted elective

Semester 4

TBLCOURSEINFO

TBLCOURSEINFO

One of:

TBLCOURSEINFO**TBLCOURSEINFO****Semester 5****TBLCOURSEINFO****TBLCOURSEINFO****Semester 6****TBLCOURSEINFO****TBLCOURSEINFO**

1.00 electives or restricted electives

Semester 7**TBLCOURSEINFO****TBLCOURSEINFO**

1.00 electives or restricted electives

Semester 8**TBLCOURSEINFO****TBLCOURSEINFO**

2.00 electives or restricted electives

Restricted Electives

In addition to the 15.00 required credits, 1.00 must be taken from the Department of Family Relations and Applied Nutrition at the 4000 level.

Electives – Recommended and Program Options***Child and Youth Services***

Students who intend to pursue a career in child and youth services may wish to choose electives from the following list:

TBLCOURSEINFO**TBLCOURSEINFO*****Early Childhood Education (ECE)***

To be eligible for certification in early childhood education and for employment in ECE settings (child care centres, family day care programs, family resource centres), students should select electives from the list below. Of these, the Association of Early Childhood Educators – Ontario (AECEO) expects students to have credit in and .

TBLCOURSEINFO**TBLCOURSEINFO*****Education – Primary / Junior / Intermediate***

Graduates interested in elementary school teaching need an additional year of study at a Faculty of Education. For those who wish to teach primary (junior kindergarten to grade 3) or junior (grades 4 to 6), each faculty of education may have certain required courses for admission. Often recommended are courses in visual or performing arts, mathematics, languages, physical or natural sciences, history or geography. Students interested in intermediate (grades 7 to 10) level teaching need to acquire a teachable subject in a specific discipline. Normally, this requirement consists of six semester courses in an area of concentration. **Students are strongly advised to contact the Faculties of Education that interest them early in their programs to determine the specific requirements.**

Graduate and Professional Studies

Students have successfully used the B.A.Sc. degree to gain admission into graduate programs in social work, applied psychology, sociology, anthropology, occupational therapy, speech and language, and social policy. If you plan to enter a graduate program after completing the Child, Youth and Family major of the B.A.Sc. degree program you will need to select certain courses as part of your undergraduate program to meet graduate program admission requirements. Sometimes these requirements are quite particular which means that you must plan your course selections early and carefully.

Although graduate programs differ in their entrance requirements, most graduate programs require that you have taken (at least): one course in research methods; two undergraduate statistics courses; and have completed an undergraduate thesis.

For many of the programs you will be required to take Graduate Record Exams (GREs) in the specific field of study. **You are strongly advised to contact the graduate programs that interest you early in your program to determine the specific entrance requirements of each program.**

X—Degree Programs, Bachelor of Applied Science (B.A.Sc.)

Child, Youth and Family (Co-op) (CYF:C)

Department of Family Relations and Applied Nutrition, College of Social and Applied Human Sciences.

The first four semesters are as for the students in the regular program. Students in the co-op program must also complete in the second academic semester. Thereafter the schedule is as follows:

Summer Semester

TBLCOURSEINFO

TBLCOURSEINFO

Semester 5 – Fall

TBLCOURSEINFO

TBLCOURSEINFO

Winter Semester

TBLCOURSEINFO

TBLCOURSEINFO

Semester 6 – Summer

TBLCOURSEINFO

TBLCOURSEINFO

2.00 electives or restricted electives

Fall Semester

TBLCOURSEINFO

TBLCOURSEINFO

Semester 7 – Winter

TBLCOURSEINFO

TBLCOURSEINFO

1.00 electives or restricted electives

Semester 8 – Fall

TBLCOURSEINFO

TBLCOURSEINFO

1.00 electives or restricted electives

Electives and Restricted Electives

Electives and restricted electives as for the regular program.

X—Degree Programs, Bachelor of Applied Science (B.A.Sc.)

Gerontology (GERN)

Department of Family Relations and Applied Nutrition, College of Social and Applied Human Sciences.

The Gerontology major is designed to provide students with an appreciation of the aged and the aging experience from social, psychological, and biological perspectives. The major places this study within the broader framework of life span human development and dynamics of functioning in a variety of social contexts. A focus on basic knowledge of aging as well as the application of that knowledge is reflected in required courses and suggested electives.

Students enrolled in the Gerontology major study aging within the perspective of the family. This approach provides the student with a broad, applied social science education as well as a fully integrated package of aging related courses. Students graduate with a degree leading to a variety of professional career opportunities in the human service, education, mental health, life skills support and counseling, and social policy fields. Our graduates also may pursue graduate study in family studies, human development, or one of the base social science disciplines. All students in the Gerontology Major must complete a minimum of 20.00 credits including the core of 14.50 required credits as outlined in the Schedule of Studies. In addition to these core requirements, there are many courses in various departments throughout the University which may be taken as electives. A list of suggested electives follows the description of required courses.

Major

Semester 1*

TBLCOURSEINFO

TBLCOURSEINFO

One of:

TBLCOURSEINFO

TBLCOURSEINFO

Semester 2

TBLCOURSEINFO

TBLCOURSEINFO

0.50 elective*

* elective in Semester 2 must be if the student does not have standing in OAC Biology or equivalent

Semester 3

TBLCOURSEINFO

TBLCOURSEINFO

One of:

TBLCOURSEINFO

TBLCOURSEINFO

0.50 elective

Semester 4

TBLCOURSEINFO

TBLCOURSEINFO

1.00 elective

One of:

TBLCOURSEINFO

TBLCOURSEINFO

Semester 5

TBLCOURSEINFO

TBLCOURSEINFO

1.50 electives

Semester 6

TBLCOURSEINFO

TBLCOURSEINFO

0.50 elective

Semester 7

TBLCOURSEINFO

TBLCOURSEINFO

0.50 elective

Semester 8

TBLCOURSEINFO

TBLCOURSEINFO

1.00 elective

Electives

Courses in different departments which complement the major and which may be taken as electives include:

TBLCOURSEINFO

TBLCOURSEINFO

Note: Students intending to apply for admission to a graduate program should include among their electives both and .

X—Degree Programs, Bachelor of Applied Science (B.A.Sc.)**Gerontology (Co-op) (GERN:C)**

Department of Family Relations and Applied Nutrition, College of Social and Applied Human Sciences.

The first four semesters are as for students in the regular program. Thereafter, the schedule is:

Summer Semester

TBLCOURSEINFO

TBLCOURSEINFO

Semester 5 – Fall

TBLCOURSEINFO

TBLCOURSEINFO

1.50 elective

Winter Semester

TBLCOURSEINFO

TBLCOURSEINFO

Semester 6 – Summer

TBLCOURSEINFO

TBLCOURSEINFO

2.00 elective

Fall Semester

TBLCOURSEINFO

TBLCOURSEINFO

Semester 7 – Winter

TBLCOURSEINFO

TBLCOURSEINFO

1.00 elective

Semester 8 – Fall

TBLCOURSEINFO

TBLCOURSEINFO

1.50 electives

Restricted Electives and Electives

As for the regular program.